IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ICANT:

Frerichs

GROUP:

Not yet assigned

SERIAL NO:

10/719,648

EXAMINER: Not yet assigned

FILED:

November 21, 2003

FOR:

SENSOR FOR MEASURING A GAS CONCENTRATION

OR ION CONCENTRATION

FIRST PRELIMINARY AMENDMENT

Please amend the above-identified application as follows:

IN THE CLAIMS:

Amend claims 1-9 as follows:

1.(Currently Amended) Sensor for measuring a gas concentration or ion concentration. comprising having:

- —a substrate (11) of a first charge-carrier type;
- —a drain (3) of a second charge-carrier type fashioned on the substrate;
- —a source (2) of the second charge-carrier type fashioned on the substrate;
- —a channel region (4) of the substrate, which is arranged between the drain (3) and the source (2);
 - —a conductive guard ring (1), which is arranged outside the channel region;
- —a sensitive gate layer (8) whose potential depends on an ambient gas concentration or ion concentration, there being an air gap (1)-between the gate layer (8) and the channel region-(4), characterized in that between the guard ring (1) and the channel region (4) there is fashioned an